# SAF-B00-004 Industrial Hygiene Sampling – Airborne FINAL DATA

E:MAIL	RESUI	LTS	TO:
--------	-------	-----	-----

Denise Pitts

N/A INITIAL/DATE

COMPLETE COPY OF DATA PACKAGE TO:

Denise Pitts

X2-09

BE USDY

COMMENTS: (PLEASE INCLUDE THE FOLLOWING ON THE FAX COVER SHEET)

SDG

20040503

SAF-B00-004

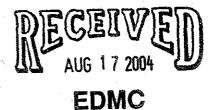
Rad only

X Chem only

Rad & Chem

X Complete

Partial



**Asbestos - Fiber Count** 

for

Bechtel Hanford, Inc. MSIN: H9-02 Richland, WA 99352

Attention: J. Kessner MSIN: H9-02

Survey ID

Data Validator MK Hame

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Group#: 20040503

Report Date 13-apr-2004

w 0007/rev,6,3

B00-004

Fluor Hanford, Inc. MSIN: S3-28

Richland, WA 99352

Phone 373-7403

Page 1/

At	tention:	J. Kessner M	SIN: H9-0	)2	Bechtel	Hanford, Inc.			Group #:	20040503
Sample #	Client ID	Test Performed	Matrix	Reported Air Vol.(L)	Fibers/ RG Field	RG Result	Units	RDL Analyst	Sampled Rece	ived Analyzed
W04I001635	J016R9	Airborne Fiber Conc.	FILTER	N/A	< RDL	BLANK	fibers/cm3	3 fibers mkg	03/28/04 03/24	04 03/24/04
W04I001636	J016T0	Airborne Fiber Conc.	FILTER	N/A	< RDL	BLANK	fibers/cm3	3 fibers mkg	03/23/04 03/24	03/24/04
W04I001637	J016T1	Airborne Fiber Conc.	FILTER	301	0.09	0.01	fibers/cm3	3 fibers mkg	03/23/04 03/24	/04 03/24/04
W04l001638	J016T2	Airborne Fiber Conc.	FILTER	298	0.03	< 0.01	fibers/cm3	3 fibers mkg	03/23/04 08/24	03/24/04
W04I001639	J016T3	Airborne Fiber Conc.	FILTER	280	0.36	0,06	fibers/cm3	3 fibers mkg	03/23/04 03/24	03/24/04

The quality control data for calender year 2004 is as follows:

RDL=Reporting Detection Limit RG = Result Range

Method LA-519-402 which was used is based on the approved NIOSH Analytical Method 7400, Rev. 4, Aug 1994.

The method does not distinguish between asbestos and non-asbestos fibers but uses 400-power phase contrast microscopy to count all particles with an overall length exceeding 5 microns and a length-to-width ratio of 3:1 or greater. This report may not be reproduced, except in its entirety without the written approval of the WSCF Laboratory.

• - Indicates results that have NOT been validated. w\_0007/rev.6.3

Page 2/3

Fibers/Field	or value
<= 0.03	1.00
>0.03 - 0.20	0.26
>0.20 - 0.50	0.20
>0.50 - 1.0	0.17
>1.0	0.14

#### WSCF **ANALYTICAL COMMENT REPORT**

Attention:

J. Kessner MSIN: H9-02

Group #:

20040503

Client ID Sample #

Lab Area

Test

Comment

VALGROUP

Results have not been corrected for lab or field blanks unless otherwise noted in the

**Analytical Comment Report** 

Validated 4/13/04 by MK Hamilton, IH QA Coordinator.

SAMPLES ACCEPTABLE FOR RECEIPT. REC'D AND LOGGED BY MK.

GRANT 3/24/04.

MEDIA: 0.8u 25 MM MCE FILTERS

Lab Areas:

VALGROUP - Group Validation LOGSAMP - Login for Sample

VALTEST - Test Validation LOGTEST - Login for Tests TESTDATA - Test Data Entry

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w007c/1 Report#: 20040503

Report Date: 13-apr-2004

	llector: Mark Cr	anston	Gompany Cor Henry W. Rul	yy			Telephone 373-5600	No.		Project Cooi Ioan H. Kes	dinator mer		5.4	maround 24 hr	•
Pay	yroll#: 734	50	Sampling Loc	ation	1	SPECIAL INST All relevant CC		ovided:		SAF No. B00-004; B00-005					
Type of Sample:		100 Area /	/ 190 DR Was	e 40use	77 BB15 Y530 ANALYSIS METHOD (SPECIFIC):				Method of S	hipment <i>Hanc</i>	1 Deliv	er			
Shi	ipped To: WSC		A	Bay	٠.	NIOSH 7400 (Asbestos)				Bill of Ladii	ng/Air Bill N				
	SSIBLE SAMPLE H. Asbes ecial Handling and	,	MATR A AIR WI WIPI X OTH	Pre		n (ies, cooling) ed; etc.)	No.	138							
	a de la completa de la compositación de la com		SAMPLE ANALYS			estectoria de 1930 Republicadorio 1930	Asbestos Airhorne	Lead Airborne	·	· · · · · · · · · · · · · · · · · · ·			:		
Īυ		MATRIX A	3-23-04	, VOLUME (L)		Blank	X	Severbe g	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			A COMPANY			
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ء پنے	T016 T3	, A	3-23-04	280	F	frea	X					3.23.00			
					·										
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ERC/INDUSTRIAL HYGIENE CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST											
SIGN / PRINT NAMES	/USE MILITARY TIME										
Relinquished By/Stored; DATE / TIME	Received By/Stered; DATE / TIME										
Mark Cranston / Mark Cranston 3-23-04 1705 Relinquished Bystorox: DATE/TIME	MO 425 / 426 Locked Room*4 3-23-04 1705  Received By/Stered: DATE/TIME										
Relinquished By/Stored:  DATE/TIME  3-24-04  0935  Relinquished By/Stored:  DATE/TIME  2-24-04  095-5  Relinquished By/Stored:  DATE/TIME	MTStankouch MTT 3-24-04 0255										
MTStankows MZLL 3-24-04 0955	Received By/Stored: Waged, Carvelyges, Stored  AN VA at 1 Mark Condenses 3-14-714										
Relinguished By/Stored:  DATE/TIME	Received by/Stored:  DATE/TIME										
Remaining filter stored at WSCF fiber	50 Bolling Stores DBB 3/29/04 1358										
Relinquished By/Siored: COUNT 12h for at least 2 manufact than	SUGALE SASAL 3-29-04 1400 Received By/Stored: DATE/TIME										
Retinquished By/Stored: Count lab for at least 3 months, then discarded at trash.	Received By/Stored: DATE / TIME										
Relinquished By/Stored: DATE / TIME	Received By/Stored: DATE / TIME										
Relinquished By/Stored: DATE / TIME	Received By/Stored: DATE/TIME										
Refinquished By/Stored: DATE / TIME	Received By/Stered: DATE / TIME										
Relinquished By/Stored: DATE / TIME:	Received By/Stored: DATE/TIME										
Relinquished By/Stored: DATE / TIME	Received By/Stored; DATE / TIME										
Relinquished By/Stored: DATE / TIME	Received By/Storet: DATE/TIME										
LABORATORY Received By Title MK Grant H Sample (	estodeán 3-24-UN 0955										
REVIEWED BY:  PRINT/SIGN NAME	DATE:										

BHI-SH-202 (01/31/2003)

Page 2 of 2

**Asbestos - Fiber Count** 

for

Bechtel Hanford, Inc. MSIN: H9-02 Richland, WA 99352

Attention: J. Kessner MSIN: H9-02

Survey ID

Data Validator < MK

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Group#: 20040515 Report Date 13-apr-2004

w 0007/rev.6.3

Fluor Hanford, Inc. MSIN: S3-28

Richland, WA 99352

Phone 373-7403

# WSCF

#### ANALYTICAL LABORATORY REPORT

At	tention:	J. Kessner M	SIN: H9-0	02,		Bechtel 1	Hanf	ord, Inc.				Grou	ւ <b>թ</b> #:	20040515
Sample #	Client ID	Test Performed	Matrix	Reported Air Vol.(L)	RG	Fibers/ Field	RG	Result	Units	RDL	Analyst	Sampled	Received	i Analyzed
W041001647	J016P3	Airborne Fiber Conc.	FILTER	N/A		< RDL		BLANK	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04I001648	J016P4	Airborne Fiber Gonc.	FILTER	N/A		≮ RDL		BLANK	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04I001649	J016P5	Airborns Fiber Conc.	FILTER	755		N/A		VOID	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W041001650	J017H5	Airborne Fiber Conc.	FILTER	922		N/A		VOID.	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04l001651	J017J3	Airborne Fiber Cong.	FILTER	1165		0,05		0.01	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04I001652	J017H8	Airborne Fiber Conc.	FILTER	1773		0.08	\$	0.005	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04I001653	J017H6	Airborne Fiber Conc.	FILTER	2715		N/A		VOID	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/36/04
W04I001654	J017J4	Airborne Fiber Gond.	FILTER	1663		0.07	<	0.005	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04l001655	J017J0	Airborne Fißer Cong.	FILTER	1673		N/A		VOID	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04l001656	J017H7	Airborne Fiber Conc.	FILTER	2724		N/A		VOID	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W041001657	J017J5	Airborne Fiber Conc.	FILTER	N/A		< RDL		BLANK	fibers/cm3	3 fibers	.mkg	03/26/04	03/29/04	03/30/04
W04l001658	J017J6	Airborne Fiber Conc.	FILTER	N/A		< RDL		BLANK	fibers/cm3	3 fibers	mkg	03/26/04	03/29/04	03/30/04
W04I001659	J617J7	Airborne Fiber Conc.	FILTER	1604		< RDL	*	0.005	fibers/cm3	3 fibers	mkg	03/26/04	03/29/04	03/30/04

RDL=Reporting Detection Limit RG = Result Range

Method LA-519-402 which was used is based on the approved NIOSH Analytical Method 7400, Rev. 4, Aug 1994.

The method does not distinguish between asbestos and non-asbestos fibers but uses 400-power phase contrast microscopy to count all particles with an overall length exceeding 5 microns and a length-to-width ratio of 3:1 or greater. This report may not be reproduced, except in its entirety without the written approval of the WSCF Laboratory.

\* - Indicates results that have NOT been validated. w 0007/rev.6.3

Page 2/

The quality control data for calender year 2004 is as follows:

Fibers/Field Sr value

. 10010/11010	O1 74100
<= 0.03	1,00
>0.03 - 0.20	0.26
>0.20 - 0.50	0,20
>0.50 - 1.0	0.17
>1.0	0.14

A	Attention: J. Kessner MSIN: H9-02			)2	Becht	tel Hanford, In	e.		Gro	up #: 2	20040515	
Sample #	Client ID	Test Performed	Matrix	Reported Air Vol.(L)	Fibers RG Field		Units	RDL Analyst	Sampled	Received	Analyzed	
W04I001660	J017K5	Airborne Fiber Conc.	FILTER	736	< R	DL < 0.01	fibers/cm3	3 fibers mkg	03/26/04	03/29/04	03/30/04	
W04l001661	J617J9	Airborne Fiber Conc.	FILTER	1612	0.1	0 < 0,005	fibers/cm3	3 fibers mkg	03/26/04	03/29/04	03/30/04	
W04I001662	J017K0	Airborne Fiber Conc.	FILTER	1618	0.0	6 < 0.005	fibers/cm3	3 fibers mkg	03/26/04	03/29/04	03/30/04	
W04l001663	J017K1	Airborne Fiber Conc.	FILTER	764	< R	DL < 0.01	fibers/cm3	3 fibers mkg	03/26/04	03/29/04	03/30/04	
W04I001664	J017K2	Airborne Fiber Conc.	FILTER	742	₹R	DL < 0.01	fibers/cm3	3 fibers mkg	03/26/04	03/29/04	03/30/04	
W04I001665	J017K3	Airborne Fiber Cond.	FILTER	759		DL < 0.01	fibers/cm3	3 fibers mkg	03/26/04	03/29/04	03/30/04	
W04I001666	J017K4	Airborne Fiber Cong.	FILTER	768	0.0	3 < 0.01	fibers/cm3	3 fibers mkg	03/26/04	03/29/04	03/30/04	

RDL=Reporting Detection Limit RG = Result Range

Method LA-519-402 which was used is based on the approved NIOSH Analytical Method 7400 The method does not distinguish between asbestos and non-asbestos fibers but uses 400-pow microscopy to count all particles with an overall length exceeding 5 microns and a length-to-win This report may not be reproduced, except in its entirety without the written approval of the WSCF Laboratory.

\* - Indicates results that have NOT been validated. w\_0007/rev.6.3

D, Rev. 4, Aug 1994.	< = 0.03
ver phase contrast	>0.03 - 0.20
idth ratio of 3:1 or greater.	>0,20 - 0,50
VECE Laboratory	>0.50 - 1.0

The quality control data for calender year 2004 is as follows: Fibers/Field Sr value

>1.0

1.00

0.26

0.20 0.17

0.14

### WSCF ANALYTICAL COMMENT REPORT

Attention:

J. Kessner MSIN: H9-02

Group #:

20040515

Sample #	Client ID	Lab Area	Test	Comment
***	· · · · · · · · · · · · · · · · · · ·	VALGROUP		Results have not been corrected for lab or field blanks unless otherwise noted in the
				Analytical Comment Report. Validated 4/13/04 by MK Hamilton, IH QA Coordinator.
W041001649	J0.16P5	TESTDATA	Airborne	SAMPLE VOID DUÉ 16 PARTICULATE OVERLOAD,
W04I001650	J017H5	TESTDATA	Airborne	SAMPLE VOID DUE TO PARTICULATE OVERLOAD.
W04l001663	J017H6	TESTDATA	Airbome	SAMPLE VOID DUE TO PARTICULATE OVERLOAD.
W041001.655	J017J0	TESTDATA	Airborne	SAMPLE VOID DUE TO PARTICULATE OVERLOAD.
W04l001656	J017H7	TESTOATA	Airborne	SAMPLE VOID DUE TO PARTICULATE OVERLOAD.
W041001666	J017K4	LOGSAMP		SAMPLES ACCEPTABLE FOR RECEIPT. REC'D BY SD BOLLING 3/29/04
				AND LOGGED BY MK GRANT 3/30/04. MEDIA: 0,8u 25 MM MCE FILTERS

Lab Areas:

VALGROUP - Group Validation LOGSAMP - Login for Sample

VALTEST - Test Validation LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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w007c/1 Report#: 20040515

Report Date: 13-apr-2004

Page 27/15/04

Bechtel Ha	nford, Inc.		ERC/INDUS	STRIAL HY	The state of the s	Company of the Compan	CUST	COLUMN PROGRAMMENT AND PROGRAM	Company of the Party of the Par	ANALY	Contract Con		
Collector: Mark Cra	inston	Company Co Henry W. Ru			Telephone 373-560			Project Co Joan H. Ke				ırnaround	
Payroll #: 7345	n	Sampling Lo		1	NSTRUCTIONS COAs must be p	rovided:		SAF No. B00-004; I	300-005		7 2	14 Hr	
Type of Sample:  Area, Asbestos			1304N Emerg	P13	04NJ4	52		Method of Shipment Hand Deli				*	
Shipped To:  W 5 C F		_ Dump 1	ank	NIO	SMETHOD (S SH 7400 Sbestos)	Bill of Lading/Air Bill No.							
POSSIBLE SAMPLE HA Asbestos		MATE A - AIR WI - WIP	Prese E	rvation (ie., cooling required, etc.)	No	No	M						
Special Handling and/o	STATE OF THE PERSON BETTER	X - OTH			Asbestos	Lead		-		-	-		-
SAMPLE NO.	MATRIX 19	AMPLE ANALYS	VOLUME (L)	Comments	Airborne	Airborne	1	-	-	-			-
50/6P3	1 110.	ed ghas our earlies	w land	Blank	X								
J016P4	A	3-25-04	Blank	Blank	X								
J016P5	A :	3-25-04	755	Area	X				3.52.00				
J017 H5	A	3-25-04	922	Area	X								
501753	A	3-25-04	1165	Area	X								
J017H8	A 3	3-25-04	1773	Area	X								
5017 H6 501752 mg	A 3	3-25-04	2715	Area	X						)		
501734	A	3-25-04	1663	Area	X								
501750	A	3-25-04	16 73	Area	X	8							
50 17 H7 50 17 JI	A	3-25-04	2724	Area	X								

	ERC/INDUSTRIAL HYGIENE CHAIN O	CUSTODY/SAMPLE ANALYSIS	REQUEST
	SIGN / PRINT NAME	S / USE MILITARY TIME	
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Marke Craveton	/ Mark Chanston 3-25-04 1530	Mo 425 Locked Room # 4	3-25-04 1530
Relinquished By/Stored:	Puller J. Wonders 3-25-04 1330		904 1330
Relinquished By/Stored:	ER C DATE/TIME	Received By/Stored:   FLUOR	DATE / TIME
SJGALE SA	bh 3-29-04 1355	SDBolling Story DB	3/29/04 1355
SOBolling/	Slacy OBER 3/29/04 1405	NZA Soras	DATECTIME
analistic	) DATE/TIME	My Hart MK Gant	3-30-04 TW from
Relinquished By/Storet:	DATE / TIME	Remaining filter stored at \ count lab for at least 3 mo discarded at tras	onths, then DATE / TIME h.
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	ĐATE / TIME
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	Lud D.		DATE / TIME
LABORATORY SECTION Section	D Bolling Stary DBell IH	Tech. May.	3/29/04 1355
	, , ,	O .	
REVIEWED BY:			DATE:
	PRINT/SIGN NAME		

POSSIBLE SAMPLE HAZARD/REMARKS  As bestos		Henry W. Ru	ERC/INDUSTRIAL HYGI Company Contact Henry W. Ruby			Telephone No. 373-5600			Project Coordinator Joan H. Kessner			Data Turnaround	
		Sampling Lo	All relevant C  R 13  Emergency Dump Tank ANALYSIS  N I C  MATRIX  A - AIR Preservation (ie., cooling required, etc.)		SPECIAL INSTRUCTIONS All relevant COAs must be provided: R 1304 N J 452 ANALYSIS METHOD (SPECIFIC): N I 0 S H 7400 (Asbestes)			SAF No. B00-004; B00-005		24 H-			
								Method of Shipment Hand Deliver					
		emerge						Bill of Lading/Air Bill No.					
		A - AIR WI - WIP			No	No							
	La.	SAMPLE ANALY	Street In the Street Street		Asbestos Airborne	Lead Airborne							
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L)	Comments			¥ 56.0	c					
5017 55	A	3-26-04	1	Blank	X		6,0	ž					
J017 56	4	3-26-04	Blank	Blank	X								
J017 J7	A	3-26-04	1604	Area	X				1				
JO17 K5	A	3-26-04	736	Area	X				,				
501759	A	3-26-04	16/2	Area	X								
50 17KO	A	3-26-04	1618	Area	X								
5017 K1	A	3-26-04	764	Area	X								
501742	A	3 -26-04	742	Area	×								
JO17 K 3	A	3-26-04	759	Area	×	=							
J017 K4	A	3-26-04	768	Area	X								

	ERC/INDUSTRIAL HYGIENE CHAIN (	OF CUSTODY/SAM	IPLE ANALYSIS REQUE	ST
	SIGN / PRINT NAM	IES / USE MILITARY		
Relinquished By/Stored:	DATE/TIME	Received By/Stored:		DATE / TIME
Marke Cranator /	Mark Cranston 3-26-04 1530	MO 425/42	cocked Room #4	3-26-04 1530
Kelinquished By/Stored:	DATE/TIME	Received By/Stored:		DATE/TIME
Duffer J. Winds	1/1/1/20 3-25-04/1330	SJGALE	S/Sel 3-29-04	/ /330
Reinquished Byrstored:	ERC	Received By/Stored:	luck,	DATE/TIME
SUGALE SA	Sele 329-04 1355	Soballing	Story OBOCO	3/29/04 1355
SO Bolling	Stay DBER 3/24/04 1405	Received By/Stored:	2A Shan	2
Relinquished By/Stored:	DATE / TIME	Received By/Stored: M Drant	IMKGan Stored at W	ISCF fiber 3-30-04 080
Relinquished By/Stored: (	DATE / TIME	Received By/Stored:	maining filter stored at the count lab for at least 3 more discarded at trast	h
Relinquished By/Stored:	DATE / TIME	Received By/Stored:		DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	· · · · · · · · · · · · · · · · · · ·	DATE/TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:		DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	·	DATE / TIME
*				
Relinquished By/Stored:	DATE / TIME	Received By/Stored:		DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	and the same of th	DATE / TIME
		6.		
CECTION	D Bolling Strang OBERS IH	Tich Men:		3/29/04 /355
		0		
REVIEWED BY:			DATE:	
	PRINT/SIGN NAME			

Page 2 of 2